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Sequence Listing was accepted.

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Reviewer: markspencer

Timestamp: [year=2008; month=8; day=12; hr=13; min=42; sec=16; ms=786;]

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Application No: 10706391

Version No: 2.0

Input Set:

Output Set:

Started: 2008-07-08 16:21:47.796

Finished: 2008-07-08 16:21:49.849

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 53 ms

Total Warnings: 71

Total Errors: 0

No. of SeqIDs Defined: 71

Actual SeqID Count: 71

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (19)
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Input Set:

Output Set:

Started: 2008-07-08 16:21:47.796
Finished: 2008-07-08 16:21:49.849
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 53 ms
Total Warnings: 71
Total Errors: 0
No. of SeqIDs Defined: 71
Actual SeqID Count: 71

Error code	Error Description
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W 251	Found intentionally skipped sequence in SEQID (25)
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SEQUENCE LISTING

<110> Eckert, Randal
 Qi, Fengxia
 Shi, Wenyuan
 Anderson, Maxwell H.

<120> ANTI-MICROBIAL TARGETING CHIMERIC PHARMACEUTICAL

<130> 02307k-186431US

<140> 10706391

<141> 2003-11-12

<150> US 09/378,577

<151> 1999-08-20

<150> US 09/910,358

<151> 2001-07-19

<150> US 10/077,624

<151> 2002-02-14

<160> 71

<170> PatentIn version 3.5

<210> 1

<211> 563

<212> DNA

<213> Artificial sequence

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<223> DNA encoding histatin 5 fusion to VH SWLA3

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accactcgca cagaggatac tctgggtggcg gtggctcggg cggaggtggg tcgggtggcg 180

gcggatccga cgtgaagctt gtggagtctg ggggaggtt agtgaaccct ggaggggtccc 240

tgaaactctc ctgtgcagcc tctggattca ctttcagtag ctataccatg tcttgggttc 300

gccagactcc ggagaagagg ctggagtggg tcgcatccat tagtagtggg ggtacttaca 360

cctactatcc agacagtgtg aagggccgat tcaccatctc cagagacaat gccagaaca 420

ccctgtacct gcaaagacc agtctgaagt ctgaggacac agccatgtat tactgttcaa 480

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Lys His His Ser His Arg Gly Tyr Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30
Gly Gly Ser Gly Gly Gly Gly Ser Asp Val Lys Leu Val Glu Ser Gly
35 40 45
Gly Gly Leu Val Asn Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala
50 55 60
Ser Gly Phe Thr Phe Ser Ser Tyr Thr Met Ser Trp Val Arg Gln Thr
65 70 75 80
Pro Glu Lys Arg Leu Glu Trp Val Ala Ser Ile Ser Ser Gly Gly Thr
85 90 95
Tyr Thr Tyr Tyr Pro Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
100 105 110
Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Thr Ser Leu Lys Ser
115 120 125
Glu Asp Thr Ala Met Tyr Tyr Cys Ser Arg Asp Asp Gly Ser Tyr Gly
130 135 140
Ser Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr
145 150 155 160
Val Ser Ser Ala Ser
165

<210> 3
<211> 533
<212> DNA
<213> Artificial sequence

<220>
<223> DNA encoding Dhvar 1 fusion to VH SWLA3

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gtggctcggg cggaggtggg tcgggtggcg gcggatccga cgtgaagctt gtggagtctg 180
ggggaggctt agtgaaccct ggagggtccc tgaaactctc ctgtgcagcc tctggattca 240
ctttcagtag ctataccatg tcttgggttc gccagactcc ggagaagagg ctggagtggg 300
tcgcatccat tagtagtggt ggtacttaca cctactatcc agacagtgtg aagggccgat 360
tcaccatctc cagagacaat gccaaagaaca ccctgtacct gcaaatgacc agtctgaagt 420

ctgaggacac agccatgtat tactgttcaa gagatgacgg ctctacggc tcctattact 480

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<210> 4
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<212> PRT
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Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Val
20 25 30
Lys Leu Val Glu Ser Gly Gly Gly Leu Val Asn Pro Gly Gly Ser Leu
35 40 45
Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Thr Met
50 55 60
Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val Ala Ser
65 70 75 80
Ile Ser Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val Lys Gly
85 90 95
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln
100 105 110
Met Thr Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ser Arg
115 120 125
Asp Asp Gly Ser Tyr Gly Ser Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly
130 135 140
Gln Gly Thr Ser Val Thr Val Ser Ser Ala Ser
145 150 155

<210> 5
<211> 24
<212> PRT
<213> Artificial sequence

<220>
<223> histatin 5 Synthesized using sequential PCR techniques

<400> 5

Asp Ser His Ala Lys Arg His His Gly Tyr Lys Arg Lys Phe His Glu
1 5 10 15
Lys His His Ser His Arg Gly Tyr
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<210> 6
<211> 14
<212> PRT

<213> Artificial sequence

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<223> dhvar 1 Synthesized using sequential PCR techniques

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Lys Arg Leu Phe Lys Glu Leu Lys Phe Ser Leu Arg Lys Tyr

1 5 10

<210> 7

<211> 89

<212> DNA

<213> Artificial sequence

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<223> Synthetic Primer 986

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ggcggatccg acgtgaagct tgtggagtc 89

<210> 8

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<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic Primer 987

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aagcaccact cgcacagagg atac 84

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<212> DNA

<213> Artificial sequence

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<223> Synthetic Primer 988

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tccagtgtga tagcc 75

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<223> Synthetic Primer 989

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cggatccgac gtgaagcttg tggagtc 87

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cgcaagtac 69

<210> 12
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<223> Synthetic Primer 991

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ggatatccac catggacttc gggttgagct tggttttcct tgtccttact ttaaaagggtg 60
tccag 65

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<223> Synthetic Primer 452

<400> 13
tgggtcgacw gatggggstg ttgtgctagc tgaggagac 39

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<212> PRT
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from PhD-12

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<222> (1)..(1)

<223> Xaa is Val, Gln or His

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<222> (2)..(2)

<223> Xaa is Pro or His

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<222> (5)..(5)

<223> Xaa is Phe or Tyr

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<222> (6)..(6)

<223> Xaa is Lys or His

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<223> Xaa is His or Ala

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<222> (8)..(8)

<223> Xaa is Leu or His

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<222> (9)..(9)

<223> Xaa is any amino acid

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<222> (11)..(11)

<223> Xaa is Lys or Arg

<220>

<221> MISC_FEATURE
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<400> 14

Xaa Xaa His Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<210> 15
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<400> 15

Arg Gly Gly Arg Leu Cys Tyr Cys Arg Arg Arg Phe Cys Val Cys Val
1 5 10 15

Gly Arg

<210> 16
<211> 18
<212> PRT
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<220>
<223> Novispirin G10

<400> 16

Lys Asn Leu Arg Arg Ile Ile Arg Lys Gly Ile His Ile Ile Lys Lys
1 5 10 15

Tyr Gly

<210> 17
<211> 15
<212> PRT
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<220>
<223> Linker peptide for PG-1 and N-terminus of VH

<400> 17

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

<210> 18

<211> 8

<212> PRT

<213> Artificial sequence

<220>

<223> Linker peptide for C-terminus of VH and N-terminus of VL

<400> 18

Gly Gly Gly Ser Gly Gly Gly Ser

1 5

<210> 19

<211> 57

<212> DNA

<213> Artificial sequence

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<223> coding region of protegrin PG-1

<400> 19

cgtggcgggtc gcctatgcta ctgtcgacgt cgcttttgcg tatgcgtggg acggtct 57

<210> 20

<211> 29

<212> DNA

<213> Artificial sequence

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<223> Synthetic Amplification primer PG-1F for PG-1-VH

<400> 20

gggaattccg tggcggtcgc ctatgctac 29

<210> 21

<211> 44

<212> DNA

<213> Artificial sequence

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<223> Synthetic Amplification primer VHR2 for PG-1-VH

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agagcgcgcca cccgaacctc cgctgaaga gacgggtgact gagg 44

<210> 22

<211> 39

<212> DNA

<213> Artificial sequence

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<223> Synthetic Amplification primer VLF2 for VL fragment

<400> 22

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39

<210> 23

<211> 47

<212> DNA

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47

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Val Pro His Glu Phe Lys His Leu Gln Met Lys Pro

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5

10

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<210> 26

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<223> PhD-12 clone 12:3

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His His His Lys Ala Leu Ala Pro Thr Val Thr Gly

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5

10

<210> 27

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<223> PhD-12 clone 12:4

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Val Pro His Glu Phe His Ala His Arg Gly Arg Leu
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Gln Pro His Pro His Lys Val His Ser Leu Pro Pro
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<223> PhD-12 clone 12:10

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Gln Pro Ala Pro Tyr Ile Ser Ser Pro Ser Ala Ser
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<210> 34

<211> 12

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Val Arg Leu Pro Leu Trp Leu Pro Ser Leu Asn Glu
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Ala Asn Tyr Phe Leu Pro Pro Val Leu Ser Ser Ser
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<210> 36

<211> 12

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<223> peptide SA5.4 specific for S. aureus

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Ser His Pro Trp Asn Ala Gln Arg Glu Leu Ser Val
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<210> 37

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<223> peptide SA5.5 specific for S. aureus

<400> 37

Ser Val Ser Val Gly Met Arg Pro Met Pro Arg Pro
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<210> 38

<211> 12

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<223> peptide SA5.6 specific for S. aureus

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Trp Thr Pro Leu His Pro Ser Thr Asn Arg Pro Pro
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Trp Ala Pro Pro Leu Phe Arg Ser Ser Leu Phe Tyr
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<400> 51

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<211> 12
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<400> 52

Lys His Leu Gln Asn Arg Ser Thr Gly Tyr Glu Thr
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<210> 53

<211> 12

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<223> peptide DH5.2 specific for E. coli

<400> 53

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<210> 54

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Thr Ile Thr Pro Thr Asp Ala Glu Met Pro Phe Leu
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<210> 55

<211> 12

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<223> peptide DH5.4 specific for E. coli

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His Leu Leu Glu Ser Gly Val Leu Glu Arg Gly Met
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<210> 56

<211> 12

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<223> peptide DH5.5 specific for E. coli

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<210> 57

<211> 12

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<223> peptide DH5.6 specific for E. coli

<400> 57

Val Asn Thr Leu Gln Asn Val Arg His Met Ala Ala
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<210> 58

<211> 12

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